

# EUROPEAN PATENT OFFICE

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TITLE : CATALYST FOR STEAM REFORMING OF HYDROCARBON

ABSTRACT : PURPOSE: To perform the steam reforming of hydrocarbons with high efficiency, by using a catalyst which is prepared by baking a mixture consisting of a calcium compound and an aluminum compound while supporting ruthenium by the baked mixture in a specific ratio.

CONSTITUTION: A mixture consisting of a calcium compound and an aluminum compound is baked to obtain a solid baked substance comprising calcium/alumina spinel or consisting of said spinel and calcium oxide and/or alumina and containing 10~50wt% of calcium oxide and 0.02~10wt% of ruthenium is supported by said baked substance. Thus obtained catalyst is a reforming one prevented from the deposition of carbon or sintering within a wide temp. range of 300~900°C under a condition of low steam/carbon ratio and having high activity and durability.

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